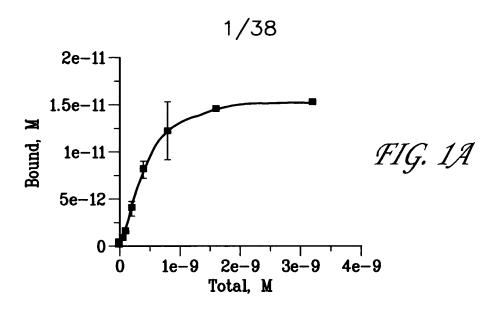
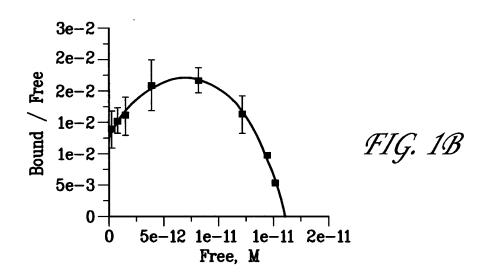
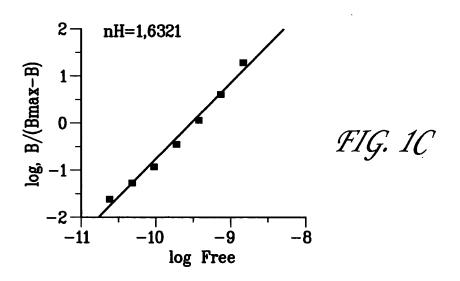
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Title: Glial Cell Line-Derived Neurotrophic Factor Receptors
Inventors: Carlos F. Ibanez, et al.
Attorney: S. Maurice Valla
Phone: (215) 568-3100
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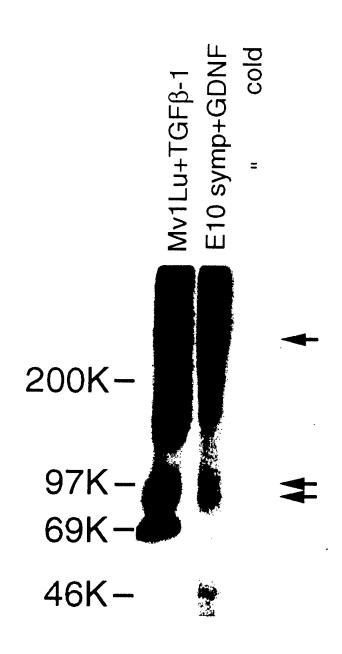


FIG. 2

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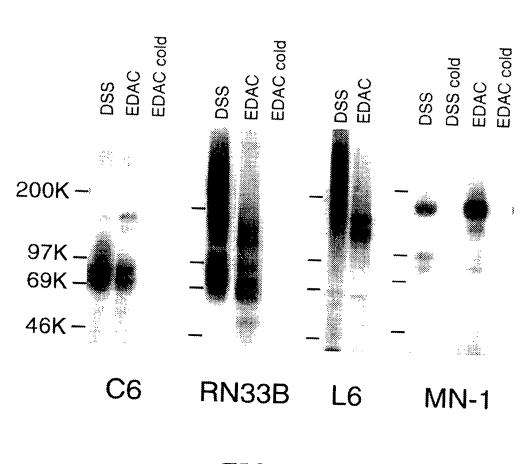
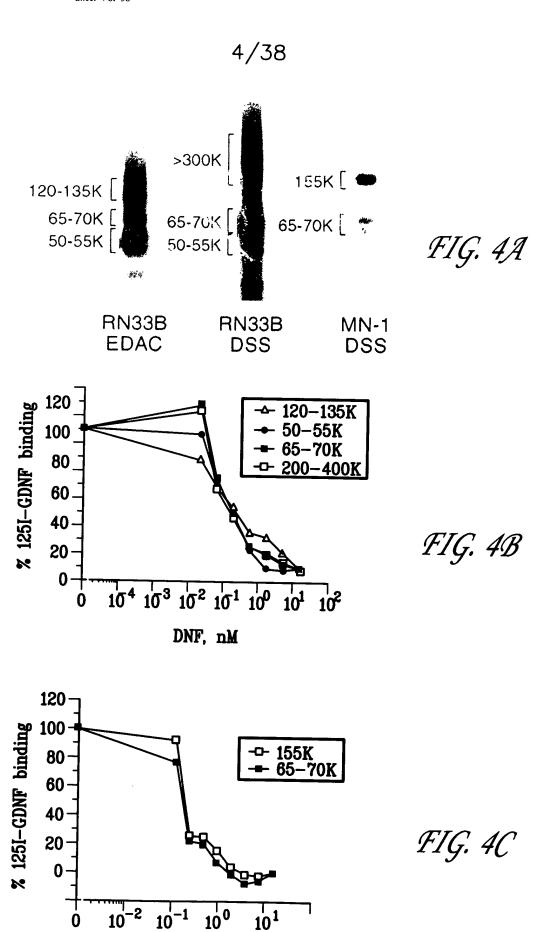


FIG. 3

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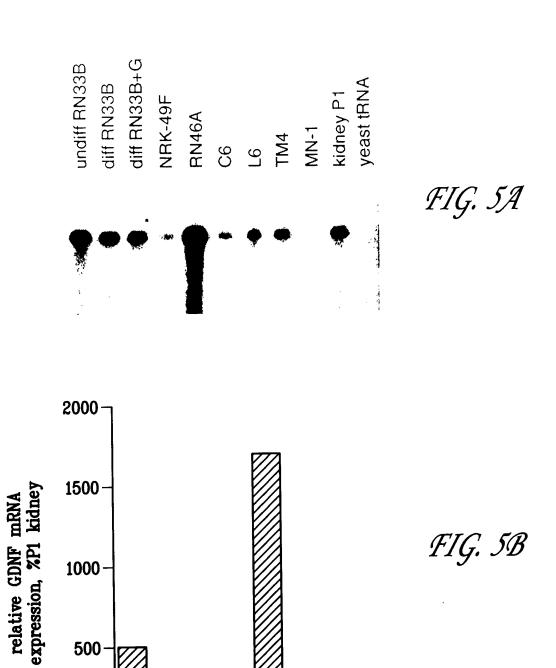
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undiff RN33B

diff RN33B

diff RN33B+G

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RN46A

NRK-49F

9

TM4

kidney P1

yeast tRNA

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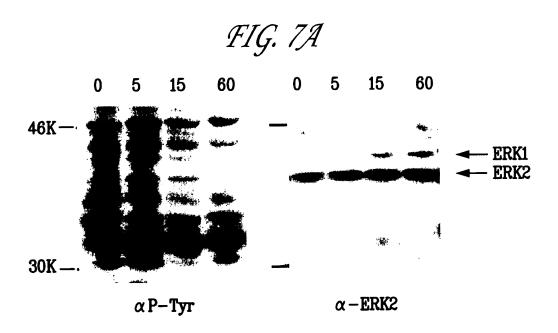


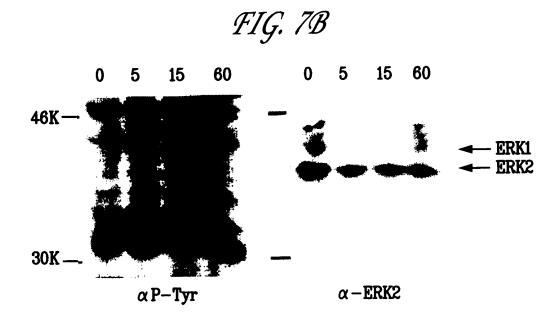




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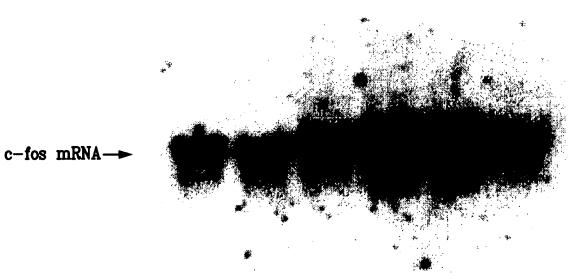
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FIG. 8A minutes after GDNF addition 120 15 45 c-fos mRNA

FIG. 8B

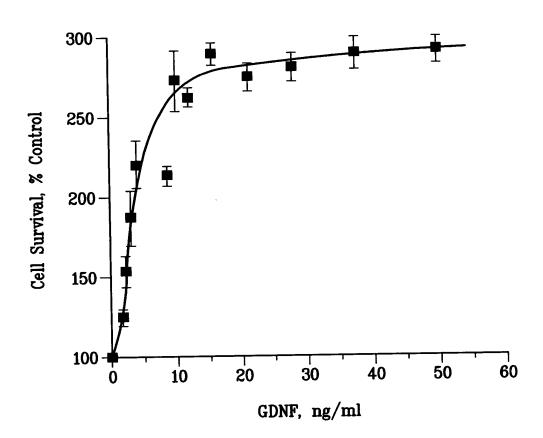
minutes after GDNF addition 5 10 30 60 120 0



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FIG. 9



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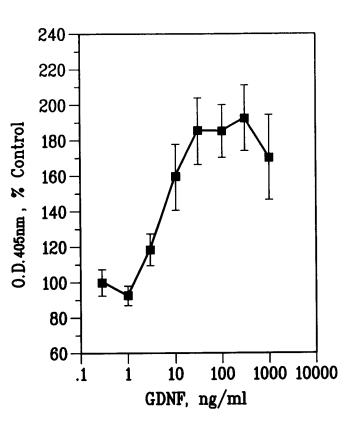


FIG. 10A

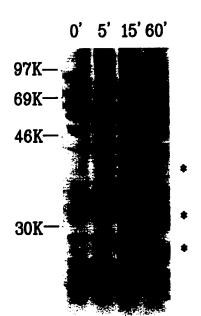
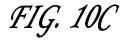
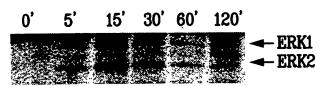


FIG. 10B



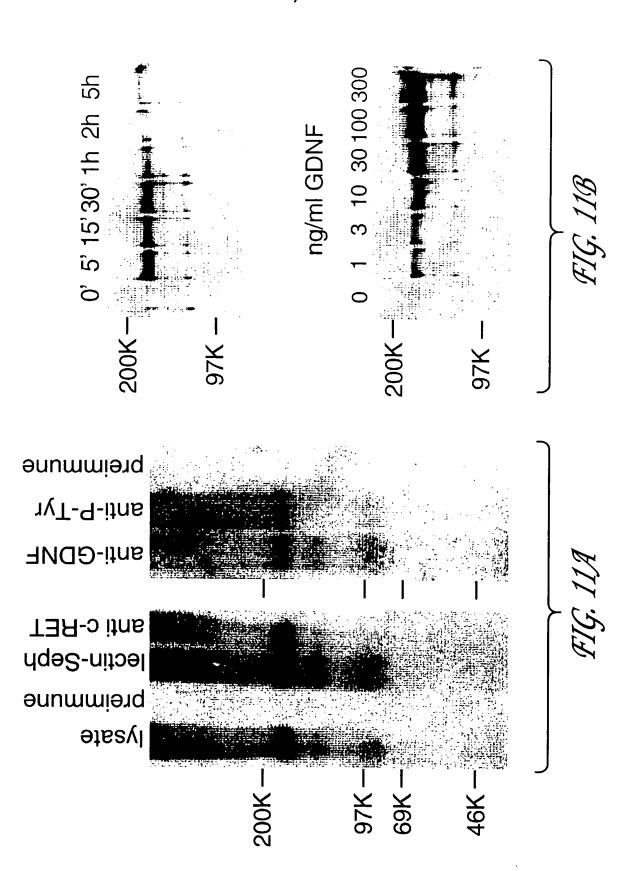


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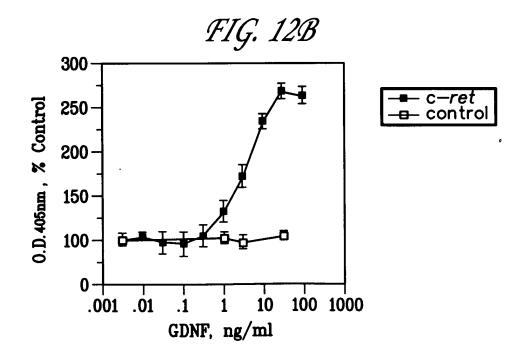
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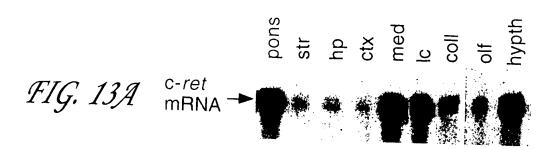


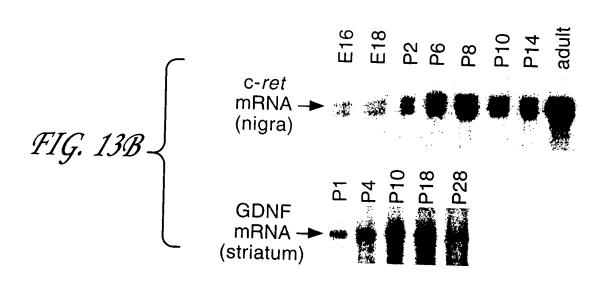


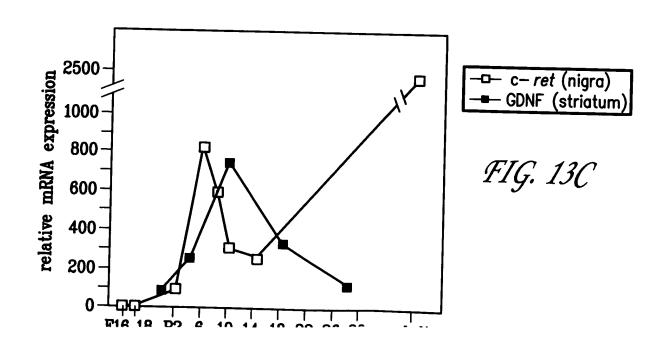
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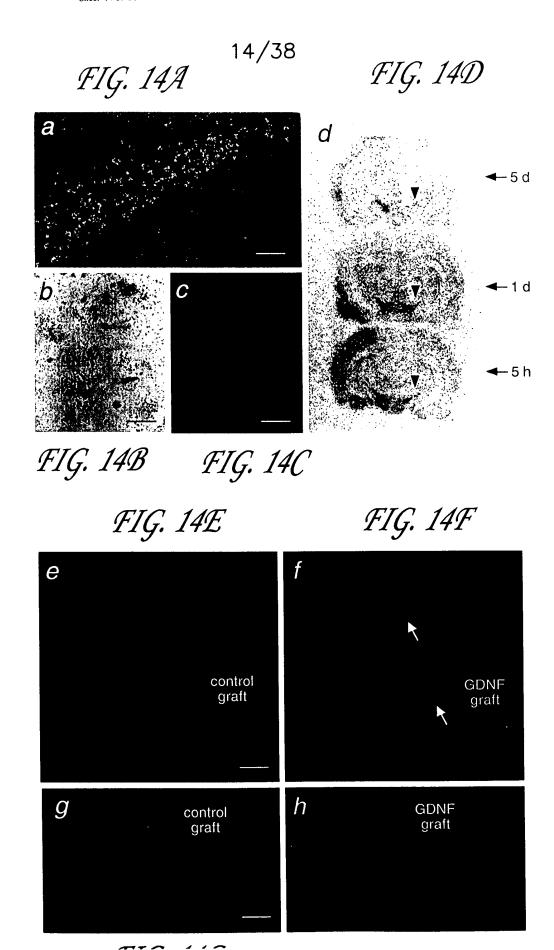
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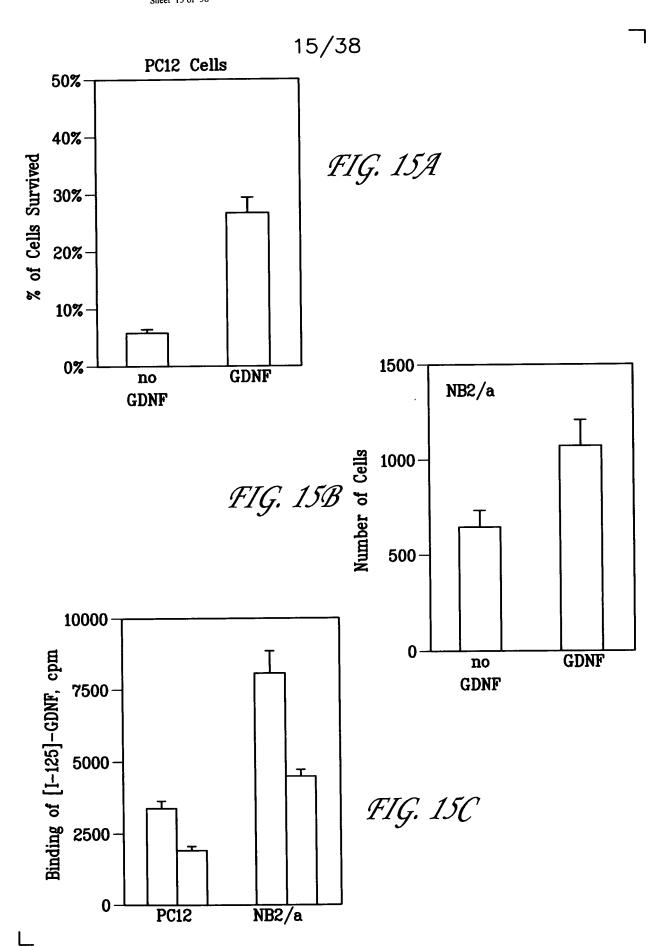
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190K 170K

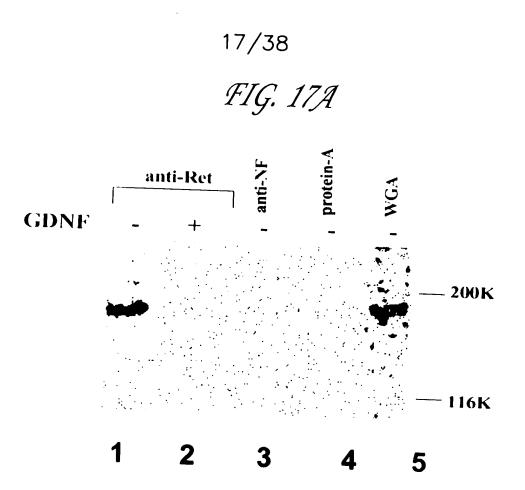
FIG. 16

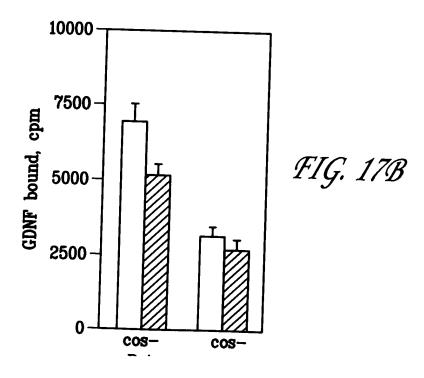
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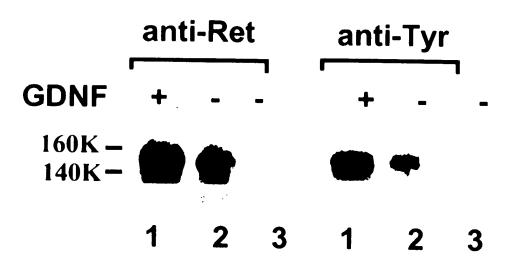


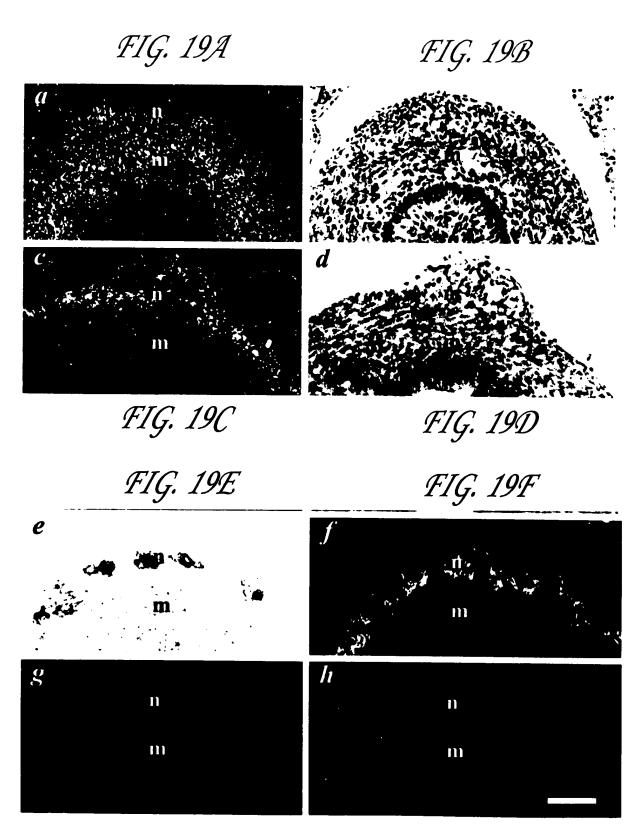
FIG. 18

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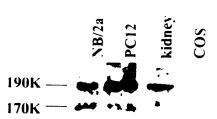


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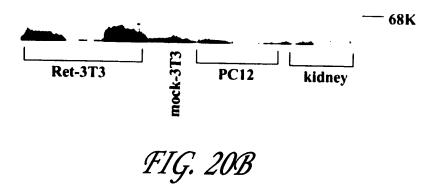
FIG. 20A











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FIG. 21A



30 60 min 0 5 10

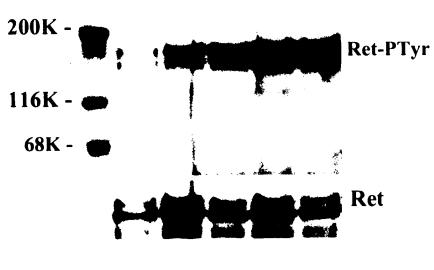
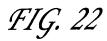
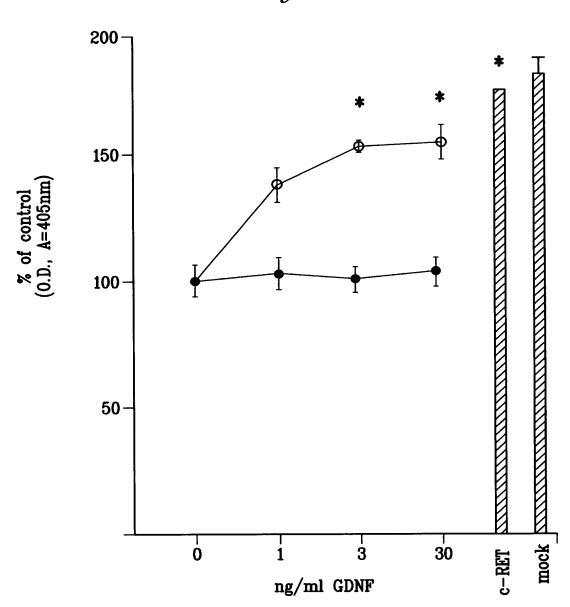


FIG. 21B

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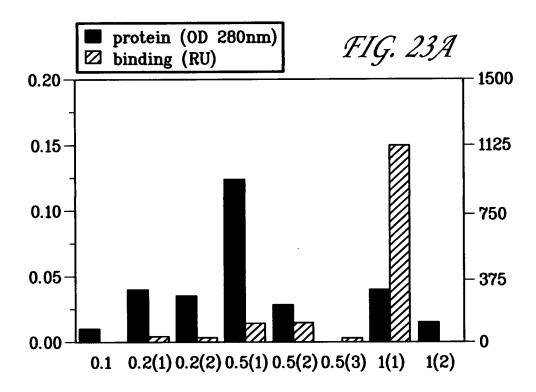
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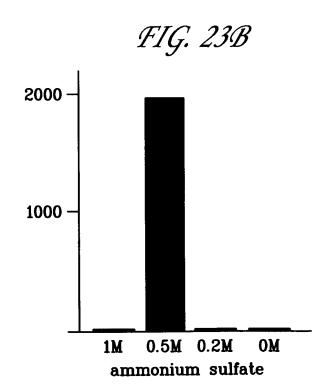




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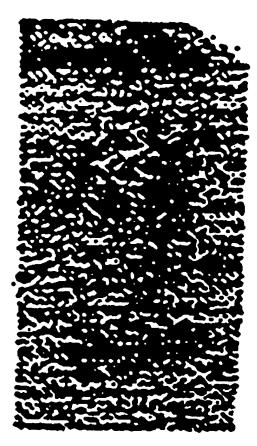


FIG. 24

201 kD

117 kD

82 kD

47 kD

FIG. 25

1 MILANAFCLF FFLDETLRSL ASPSSLQGSE LHGWRPQVDC VRANELCAAE
51 SNCSSRYRTL RQCLAGRDRN TMLANKECQA ALEVLQESPL YDCRCKRGMK
101 KELQCLQIYW SIHLGLTEGE EFYEASPYEP VTSRLSDIFR LASIFSGTGT
151 DPAVSTKSNH CLDAAKACNL NDNCKKLRSS YISICNREIS PTERCNRKC
201 HKALRQFFDR VPSEYTYRML FCSCQDQACA ERRRQTILPS CSYEDKEKPN
251 CLDLRSLCRT DHLCRSRLAD FHANCRASYR TITSCPADNY QACLGSYAGM
301 IGFDMTPNYV DSNPTGIVVS PWCNCRGSGN MEEECEKFLR DFTENPCLRN
351 AIQAFGNGTD VNMSPKGPSL PATQAPRVEK TPSLPDDLSD STSLGTSVIT
401 TCTSIQEQGL KANNSKELSM CFTELTTNIS PGSKKVIKLN SGSSRARLSA
451 ALTALPLLML TLAL SEQ ID NO:2

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GDNFR- β 1	MILANAFCLFFFLDETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAE 5					
GDNFR-a 1	: .:: ::: ::: :::	39				
51	SNCSSRYRTLRQCLAGRDRNTMLANKECQAALEBLQESPLYDCRC	95				
40	QSCSTKYRTLRQCVAGKETNFSLTSGLEAKDECRSAMEALKQKSLYNCRC	89				
96	KRGMKKELQCLQIYWSYHLGLTEGEEFYEASPYEPVTSRLSDIFRLASIF	145				
90	KRGMKKEKNCLRIYWSMYQSL.QGNDLLEDSPYEPVNSRLSDIFRAVPFI	138				
146	SGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSHISICNREISPTERC	195				
139	SDVFQQVEHISKGNNCLDAAKACNLDDTCKKYRSAYITPCTTSMS.NEVC	187				
196	NRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYED	245				
188	NRRKCHKALRQFFDKVPAKHSYGMLFCSCRDIACTERRRQTIVPVCSYEE	237				
246	KEKPNCLDLRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLG	295				
238	RERPNCLSLQDSCKTYNICRSRLADFFTNCQPESRSVSNCLKENYADCLL	287				
296	SYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEECEKFLRDFTEN	345				
288	AYSGLIGTVMTPNYVDSSSLSVAPWCDCSNSGNDLEDCLKFLNFFKTN	335				
346	PCLRNAIQAFGNGTDVNMSPKGPSLPATQAPRVEKTPSLPDDLSDSTS	393				
336	. : . . .:. TCLKNAIQAFGNGSDVTMWQPAPPVQTTTATTTTAFRVKNKPLGPAGSEN	385				
394	.LGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGSKKVIKLN	440				
386	:. : . . . ::: .::: : EIPTHVLPPCANLQAQKLKSNVSGSTHLCLSDSDFGKDGLAGASSHITTK	435				
441	SGSSRARLSAALTALPLIMLTLAL* 465 SEQ ID N	0: 2				
436	. . : 5 SMAAPPSCSLSSLPVLMLT.ALAALLSVSLEATS 468 SEQ ID N	io: 1				

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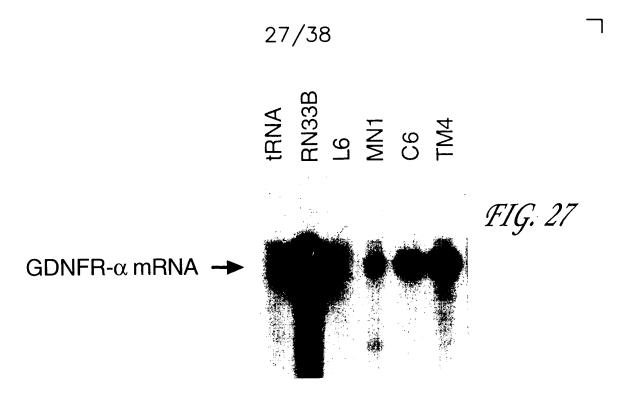
		FIG. 26				SEQ ID NO.: 8 SEQ ID NO.: 1 SEQ ID NO.: 11 SEQ ID NO.: 9
59 70 70	128 128 135 135	198 198 205 205	268 268 275 275	336 336 345 345	406 406 412 412	465 S 465 S 445 S 464 S
MFLATLYFALPLLDLLLSAEVSGGDRL DCV KASDQCLKEQSCSTKYRTLRQCVAGKETN MFLATLYFALPLLDLLMSAEVSGGDRLDCVKASDQCLKEQSCSTKYRTLRQCVAGKETN MILANAFCLFFFLDETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRN MILANAFCLFFFLDETLRSLASPSSLQGPELHGWRPPVDCVRANELCAAESNCSSRYRTLRQCLAGRDRN	FSLASGLEAKDECRSAMEALKOKSLYNCRCKRGMKKEKNCLRIYWSMYQSL.OGNDLLEDSPYEPVNSRL 1 FSLTSGLEAKDECRSAMEALKOKSLYNCRCKRGMKKEKNCLRIYWSMYQSL.OGNDLLEDSPYEPVNSRL 1 TMLANKECQAALEBLQESPLYDCRCKRGMKKELQCLQIYWSYHLGLTEGEEFYEASPYEPVTSRL 1 TMLANKECQAALEBLQESPLYDCRCKRGMKKELQCLQIYWSYHLGLTEGEEFYEASPYEPVTSRL 1	SDIFRVVPFISDVFQQVEHIPKGNNCLDAAKACNLDDICKKYRSAYITPCTTSVS.NDVCNRRKCHKALR 1 SDIFRAVPFISDVFQQVEHISKGNNCLDAAKACNLDDTCKKYRSAYITPCTTSMS.NEVCNRRKCHKALR 1 SDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTERCNRRKCHKALR 2 SDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTERCNRRKCHKALR 2 SDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTERCNRRKCHKALR 2	QFFDKVPAKHSYGMLFCSCRDIACTERRRQTIVPVCSYEERERPNCLSLQDSCKTNYICRSRLADFFTNC 2 QFFDKVPAKHSYGMLFCSCRDIACTERRRQTIVPVCSYEERERPNCLSLQDSCKTNYICRSRLADFFTNC 2 QFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLDLRSLCRTDHLCRSRLADFHANC 2 QFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLDLRGVCRTDHLCRSRLADFHANC 2	QPESRSVSSCLKENYADCLLAYSGLIGTVMTPNYIDSSSLSVAPWCDCSNSGNDLEECLKFLNFFKDN QPESRSVSNCLKENYADCLLAYSGLIGTVMTPNYVDSSSLSVAPWCDCSNSGNDLEDCLKFLNFFKDN RASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEECEKFLRDFTEN RASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSSPTGIVVSPWCNCRGSGNMEEECEKFLRDFTEN RASYQTVTSCPADNYQACLGSYAGMIGFDMTPNYVDSSPTGIVVSPWCNCRGSGNMEEECEKFLRDFTEN	TCLKNAIQAFGNGSDVTVWQPAFPVQTTTATTTTALRVKNKPLGPAGSENEIPTHVLPPCANLQAQKLKS TCLKNAIQAFGNGSDVTWWQPAPPVQTTTATTTTAFRVKNKPLGPAGSENEIPTHVLPPCANLQAQKLKS PCLRNAIQAFGNGTDVNMSPKGPSLPATQAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKA PCLRNAIQAFGNGTDVNVSPKGPSFQATQAPRVEKTPSLPDDLSDSTSLGTSVITTCTSVQEQGLKA	NVSGNTHLCISNGNYEKEGL.GASSHITTKSMAAPPSCGLSPLLVRVVTALSTLLSLTETS* NVSGSTHLCLSDSDFGKDGLAGASSHITTKSMAAPPSC <u>SLSSLPVLMLTALAALLSVSLEATS*</u> NNSKELSMCFTELTTNISPGSKKVIKLNSGSSL
humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta	humalpha ratalpha ratbeta humbeta

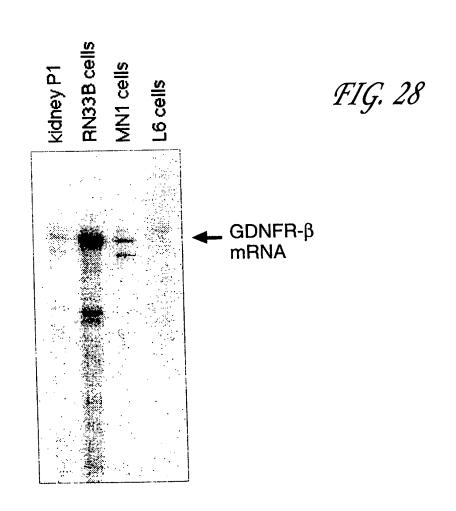
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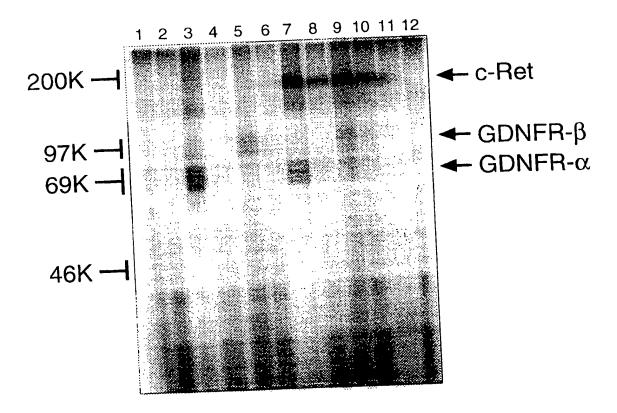


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FIG. 29



1: control plasmid

2: comtrol plasmid + cold

3: GDNFR- α

4: GDNFR- α + cold

5: GDNFR-**β**

6: GDNFR- β + cold

7: c-Ret + GDMFR- α

8: c-Ret + GDMFR-\alpha + cold

9: c-Ret + GDMFR-**β**

10: c-Ret + GDMFR- β + cold

11: c-Ret

12: c-Ret + cold

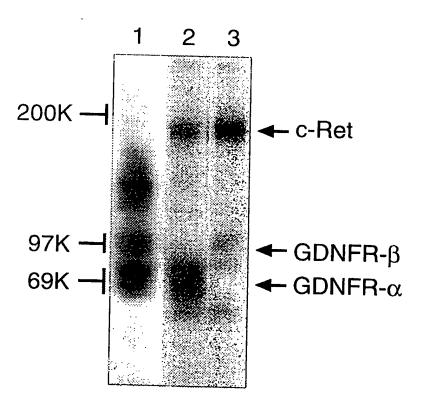
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Inventors: Carlos F. Ibanez, et al. Attorney: S. Maurice Valla

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FIG. 30



1: RN33B

2: COS transfected with Ret and GDNFR- α

3: COS transfected with Ret and GDNFR- β

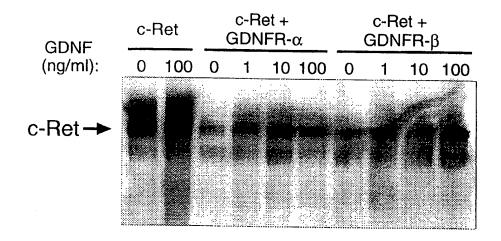
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Title: Glial Cell Line-Derived Neurotrophic Factor Receptors
Inventors: Carlos F. Ibanez, et al.

Attorney: S. Maurice Valla Sheet 30 of 38 · Phone: (215) 568-3100

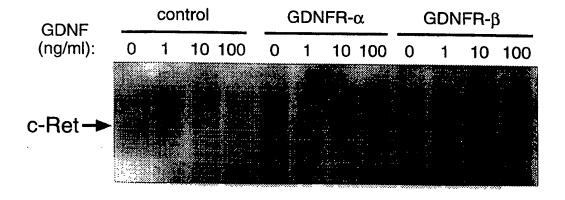
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FIG. 31

COS cells transfected with c-Ret and GDNFR- α or GDNFR- β cDNAs



Neuro-2A cells transfected with GDNFR- α or GDNFR- β cDNAs



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FIG. 32

ATGATCTTGG CAAACGCCTT CTGCCTCTTC TTCTTTTTAG ACGAAACCCT 1 CCGCTCTTTG GCCAGCCCTT CCTCCCTGCA GGGCTCTGAG CTCCACGGCT 51 GGCGCCCCA AGTGGACTGT GTCCGGGCCA ATGAGCTGTG TGCGGCTGAA 101 TCCAACTGCA GCTCCAGGTA CCGCACCCTT CGGCAGTGCC TGGCAGGCCG 151 GGATCGCAAT ACCATGCTGG CCAATAAGGA GTGCCAGGCA GCCCTGGAGG 201 TCTTGCAGGA AAGCCCACTG TATGACTGCC GCTGCAAGCG GGGCATGAAG 251 AAGGAGCTGC AGTGTCTGCA GATCTACTGG AGCATCCATC TGGGGCTGAC 301 AGAGGGTGAG GAGTTCTATG AAGCTTCCCC CTATGAGCCT GTGACCTCGC 351 GCCTCTCGGA CATCTTCAGG CTCGCTTCAA TCTTCTCAGG GACAGGGACA 401 GACCCGGCAG TCAGTACCAA AAGCAACCAC TGCCTGGATG CCGCCAAGGC 451 CTGCAACCTG AATGACAACT GCAAGAAGCT TCGCTCCTCT TATATCTCCA 501 TCTGCAACCG TGAGATCTCT CCCACCGAAC GCTGCAACCG CCGCAAGTGC 551 CACAAGGCTC TGCGCCAGTT CTTTGACCGT GTGCCCAGCG AGTATACCTA 601 CCGCATGCTC TTCTGCTCCT GTCAGGACCA GGCATGTGCT GAGCGTCGCC 651 GGCAAACCAT CCTGCCCAGT TGCTCCTATG AGGACAAGGA GAAGCCCAAC 701 TGCCTGGACC TGCGCAGCCT GTGTCGTACA GACCACCTGT GCCGGTCCCG 751 ACTGGCAGAT TTCCACGCCA ACTGTCGAGC CTCCTACCGG ACAATCACCA 801 GCTGTCCTGC GGACAACTAC CAGGCATGTC TGGGCTCCTA TGCTGGCATG 851 901 ATTGGGTTTG ATATGACACC CAACTATGTG GACTCCAACC CCACGGGCAT CGTGGTGTCT CCCTGGTGCA ATTGTCGTGG CAGTGGGAAC ATGGAAGAAG 1001 AGTGTGAGAA GTTCCTCAGG GACTTCACGG AAAACCCATG CCTCCGGAAT 1051 GCCATTCAGG CCTTTGGTAA TGGCACAGAT GTGAACATGT CTCCCAAAGG 1101 CCCCTCACTC CCAGCTACCC AGGCCCCTCG GGTGGAGAAG ACTCCTTCAC 1151 TGCCAGATGA CCTCAGTGAC AGCACCAGCC TGGGGACCAG TGTCATCACC 1201 ACCTGCACAT CTATCCAGGA GCAAGGGCTG AAGGCCAACA ACTCCAAAGA 1251 GTTAAGCATG TGCTTCACAG AGCTCACGAC AAACATCAGT CCAGGGAGTA 1301 AAAAGGTGAT CAAACTTAAC TCAGGCTCCA GCAGAGCCAG ACTGTCGGCT 1351 GCCTTGACTG CCCTCCCACT CCTGATGCTG ACCTTGGCCT TGTAGGCCTT 1401 TGGAACCCAG CACA SEQ ID NO: 5

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1360 1280 1200 480 560 640 720 800 880 960 1040 1120 400 AAATATCATCCCAGGGAGTAACAAGGTGATCAAACCTAACTCAGGCCCCAGCAGAGCCAGACCGTCGGCTGCCTTGACCG ACCTGCACGTCTGTCCAGGAGCAGGGGCTGAAGGCCCAACACTCCAAAGAGTTAAGCATGTGCTTCACAGAGCTCACGAC TGCTGTCTGTCCTGATGCTGAAACAGGCCTTG**TAG**GCTGTGGGAACCGAGTCAGAAGATTTTTGAAACTACGCAGACAAG AGGCCCCTCGGGTGGAGAAGACGCCTTCTTTGCCAGATGACCTCAGTGACAGTACCAGCTTGGGGACCAGTGTCATCACC TGCTCCTATGAGGACAAGGAGAAGCCCCAACTGCCTGGACCTGCGTGGCGTGTGCCGGACTGACCACCTGTGTGTCGGTCCCG GCTGGCCGACTTCCATGCCAATTGTCGAGCCTCCTACCAGACGGTCACCAGCTGCCCTGCGGACAATTACCAGGCGTGTC CCCTGGTGCAGCTGTCGTGGCAGCGGGAACATGGAGGAGGAGTGTGAGAAGTTCCTCAGGGACTTCACCGAGAACCCATG CCTCCGGAACGCCATCCAGGCCTTTGGCAACGGCACGGACGTGAACGTGTCCCCAAAAGGCCCCTCGTTCCAGGCCCACCC CGAGATCTCGCCCACCGAGCGCTGCAACCGCCGCAAGTGCCACAAGGCCCTGCGCCAGTTCTTCGACCGGGTGCCCAGCG GATCTACTGGAGCATCCACCTGGGGCTGACCGAGGGTGAGGAGTTCTACGAAGCCTCCCCCTATGAGCCGGTGACCTCCC GCTCTCGCTACCGCACTCTGCGGCAGTGCCTGGCAGGCCGCGACCGCAACACACATGCTGGCCAACAAGGAGTGCCAGGGG GCCTTGGAGGTCTTGCAGGAGAGCCCGCTGTACGACTGCCGCTGCAAGCGGGGCATGAAGAAGAAGGAGCTGCAGTGTCTGGA GGGCCCCGAGCTCCACGGCTGGCGCCCCCCAGTGGACTGTGTCCGGGCCAATGAGCTGTGTGCCGCCGAATCCAACTGCA GCCTCTCGGACATCTTCAGGCTTGCTTCAATCTTCTCAGGGACAGGGGCAGACCCGGTGGTCAGCGCCAAGAGCAACCAT AGTACACCTACCGCATGCTCTTCTGCTCCTGCCAAGACCAGGCGTGCGCTGAGCGCCGCCGGCAAACCATCCTGCCCAGG ATGATCTTGGCAAACGCCTTCTTCTTCTTTCTAGACGAGCCCTCCTCTTTGGCCAGCCCTTTCTGGCA TGCCTGGATGCTGCCAAGGCC**TGCAACCTGAATGACAACTGCAA**GAAGCTGCGCTCCTCCTACATCTC<u>CATCTGC</u>AACCG

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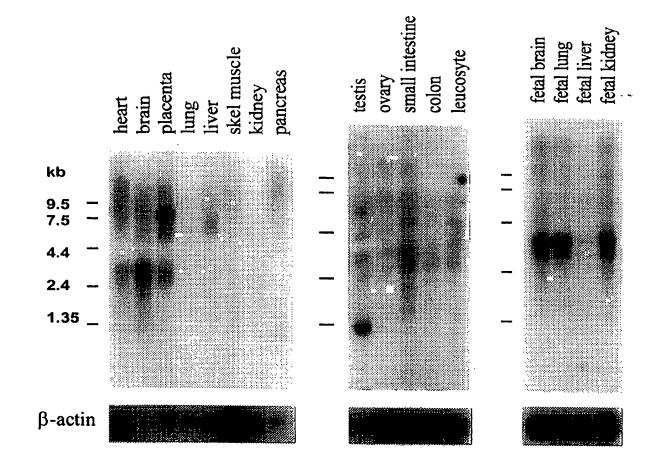
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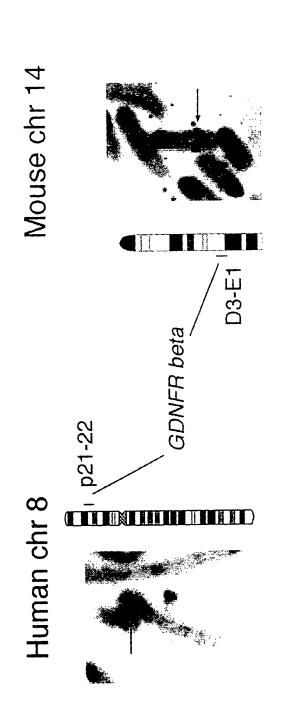
FIG. 34



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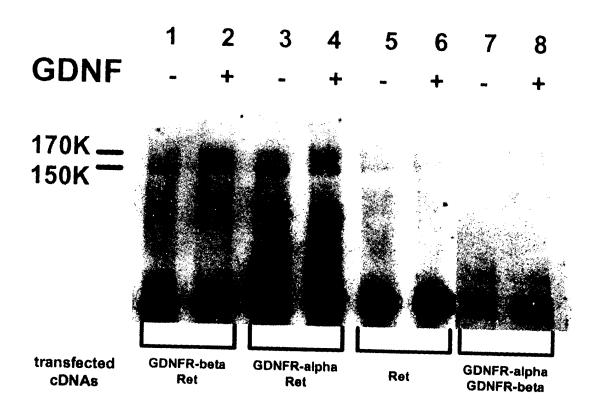
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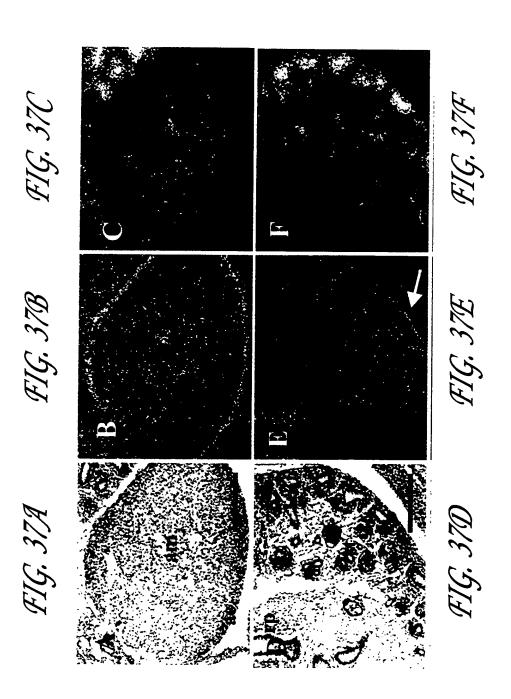
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FIG. 36



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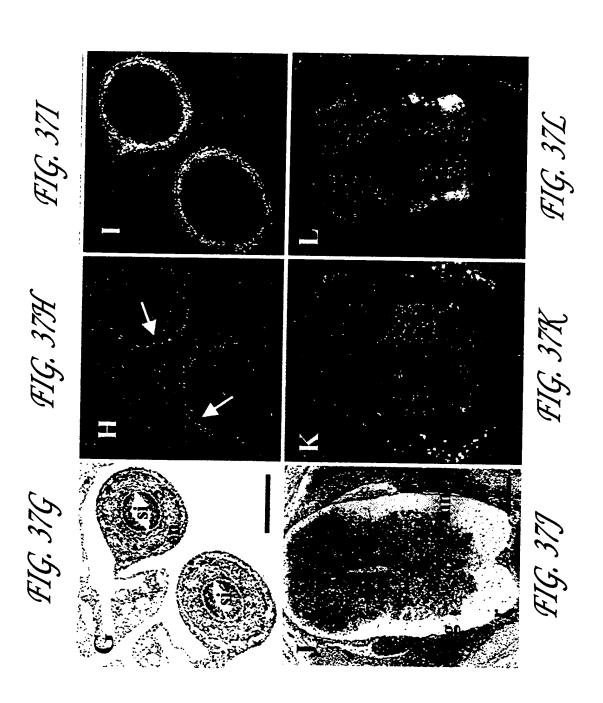
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